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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 09/688,462 | 10/16/2000 | Gotthard Schmid | A-2569 | 3793 |
| 7590 | 12/02/2003 | | EXAMINER | |
| Lerner and Greenberg PA Post Office Box 2480 Hollywood, FL 33022-2480 | | | YAN, REN LUO | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2854 | |

DATE MAILED: 12/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

| | | |
|-----------|-----------------|------------------|
| | Application No. | Applicant(s) |
| | 09/688,462 | SCHMID, GOTTHARD |
| Examiner | Art Unit | |
| Ren L Yan | 2854 | MW |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 07 November 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-11 and 14-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,3-11 and 14-18 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11-7-2003 has been entered.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 14, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pensavecchia(5,660,108) in view of Stark et al(5,040,460). The patent to Pensavecchia teaches the detailed structure of a modular printing machine as claimed including a first printing unit 200 having a central impression cylinder 222 and four printing devices 224a-224d assigned thereto and a second printing unit 300 having a second impression cylinder 322 and a sheet feeding device disposed upline of the second impression cylinder 322, and a perfecting assembly 400 serving as a coupling device for selectively coupling the first and second printing units to one another for in line operation. The perfecting assembly includes a reversing cylinder for reversing and feeding the sheet from the first printing unit to the second printing unit. Each of the printing units also has its own sheet feeding device and an adjusting device assigned for register correction of the sheet to the feeding device and therefor to the impression cylinder. The detailed

structure of the sheet feeding device is shown in Fig. 1 of Pensavecchia wherein a front stopper (fingers) 77a moves vertically to register the sheet to be parallel with the axis of the impression cylinder and a conventional means is activated to push the sheet horizontally against a side guide to assure that the sheet is squared up and is in the correct axial position relative to the impression cylinder. See Figs. 1, 2 and column 4, lines 46-53 in Pensavecchia for details. However, Pensavecchia does not teach to displace the feed drums 72a and 72b for adjusting and correcting registration of the feed drums and does not show the use of sheet position sensors. Stark et al teach in a sheet fed rotary printing machine having a sheet register adjusting assembly for a sheet feed drum 4 the use of axial displacement and pivotal displacement of the sheet feed register drum to provide lateral register adjustment and circumferential register adjustment of the sheet feed drum 4 and the use of sheet position sensor 103 connected electronically to the computer unit 101 for feeding the computer unit with register signals. See the abstract, Figs. 1-3, and column 5, line 23 through column 6, line 52 in Stark et al for example. It would have been obvious to those having ordinary skill in the art to provide the sheet printing machine of Pensavecchia with the sheet feed drum adjustment structure and computer control appropriately disposed as taught by Stark et al in order to ensure that the sheet feed drums and the sheet carried by the drums are properly registered with respect to the downstream impression cylinder. With respect to claim 18, to adjust the sheet feeding device with respect to the impression cylinder of each printing unit during the printing operation after the two printing units have been coupled is an inherent feature of the printing machine in Pensavecchia.

Claims 3-11 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pensavecchia in view of Stark et al as applied to claim 1 above, and further in view of Drapatsky

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et al(5,103,733). Pensavecchia, as modified by Stark et al, teaches all that is claimed with the exception that the applied references do not appear to teach the use of multiple sheet position sensors for register correction of the sheet and the sheet feed drum. Drapatsky et al teach in a sheet-fed printing machine the conventional use of multiple photo-sensors to monitor the positions of the sheets being processed in relation to the angular position of the impression cylinder and electronic control means provided to adjust the position of the sheet to register the sheets with respect to the position of the printing cylinders. See Figs. 4-8 in Drapatsky et al for example. In view of the teachings of Drapatsky, it would have been obvious to those having ordinary skill in the art to provide the printing machine of the '108 patent, as modified by Stark et al, with the sheet register- adjusting device having multiple sheet position sensors appropriately disposed as taught by Drapatsky in order to ensure proper registration of the sheets with respect to the various printing units and the printing quality. With respect to claim 15, to apply the teaching of '108 patent to the known printing units as recited in order to achieve multi-color perfecting printing on a sheet by those having ordinary skill in the art would have been most obvious.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pensavecchia in view of Stark et al as applied to claim 1 above, and further in view of Giori et al(6,101,939). Pensavecchia, as modified by Stark et al, teaches all that is claimed except that the two impression cylinders appear to be the same size. The patent to Giori et al teaches in a sheet fed rotary printing machine the conventionality of using two impression cylinders 2 and 21 of different sizes based on the number of colors each impression cylinder is used to print. It should be pointed out that blanket cylinder 2 serves as an impression cylinder for blanket cylinder 3 and

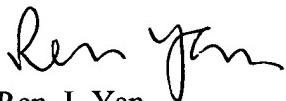
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vice versa and is used to print four colors. Impression cylinder 21 is only used for two-color printing and therefore is of a smaller size. See the figure in Giori et al for example. It would have been obvious to those having ordinary skill in the art to provide the printing machine of Pensavecchia, as modified by Stark et al, with a smaller second impression cylinder as taught by Giori et al to save manufacturing cost and operating space if less than four colors are printed by the second printing unit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ren L Yan whose telephone number is 703-308-0978. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on 703-305-6619. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.


Ren L Yan
Primary Examiner
Art Unit 2854

Ren Yan
Nov. 26, 2003